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1991

Page(s): 659 -664 vol.1

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multiple supports***Boullic, R.; Mas-Sanso, R.; Thalmann, D.;*Visualization and Computer Graphics, IEEE Transactions on , Volume: 3 Issue:
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Radar, Sonar and Navigation, IEE Proceedings - , Volume: 149 Issue: 2 , April ;
Page(s): 60 -69

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Radar Conference, 1989., Proceedings of the 1989 IEEE National , 29-30 March
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Biomedical Engineering, IEEE Transactions on , Volume: 40 Issue: 6 , June 1993
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New Microscopies in Medicine and Biology, IEEE Colloquium on , 1994

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Military Communications Conference, 1991. MILCOM '91, Conference Record, 'I Communications in a Changing World', IEEE , 4-7 Nov. 1991

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Neural Networks, 1992. IJCNN., International Joint Conference on , Volume: 1

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[Analysing character shapes by string matching techniques - Herz, Hersch \(1993\) \(Correct\)](#)
logic remains implicit. This is the reason why **grid-fitting** systems require explicit knowledge that has to
or even automatically, as could be the case for **grid-fitting** purposes) Let us proceed with a concrete
cajun.cs.nott.ac.uk/wiley/journals/epobetan/pdf/volume6/issue3/hersch.pdf

[New Cartesian Grid Methods For Interface Problems Using The... - Li, Lin, Wu \(Correct\)](#)
those closely related to this paper. 1.1. Body **fitting grid** methods based on finite element
is aligned with the interface (body **fitting grid**) This can be proved strictly in one
difficult and time consuming to generate a body **fitting grid** for an interface problem in which the
ftp.ncsu.edu/pub/ncsu/crsc/crsc-tr99-12.ps.Z

[Data Structures and Implementation of Composite Adaptive Grid.. - Zhu, Oliger \(Correct\)](#)
of solving PDE's. One method is to use body **fitting grid** for the entire domain. The difficulty of this
of using a composite grid over using a body **fitting grid** is that transformations are only needed near
www.sccm.stanford.edu/students/xzhu/paper2.ps.gz

[Some comments about the ToolKit InterViews 3.1 - Fekete \(Correct\)](#)
the extent of several connecting segments. 3.5. **Grid fitting** InterViews uses floating point coordinates
can handle the matrix by itself if precise **grid fitting** is required. This is harder with InterViews
ftp.lri.fr/LRI/articles/jdf/comments-iv.ps.Z

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Example-based hinting of true type fonts

Full text Pdf (299 KB)

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↑ ABSTRACT

Hinting in TrueType is a time-consuming manual process in which a typographer c
for better fitting the characters of a font to a grid of pixels. In this paper, we prop
automatically hinting TrueType fonts by transferring hints of one font to another. (
target font without hints, our method matches the outlines of corresponding glyph

9/960,064

translates all of the individual hints for each glyph from the source to the target font value table (CVT) entries, which are used to unify feature sizes across a font. The provides a great improvement over the unhinted version. More importantly, the tr the sound, hand-designed hinting structure of the original font, provide a very good professional typographer to complete and fine-tune, saving time and increasing productivity. approach with examples of automatically hinted fonts at typical display sizes and provide estimates of the time saved by a professional typographer in hinting new fonts approach.

↑ REFERENCES

Note: OCR errors may be found in this Reference List extracted from the full text ; the complete List rather than only correct and linked references.

- 1 Adobe Systems, Inc. Adobe Type 1 Font Format, March 1990.
- 2 Sten E Andler. Automatic generation of gridfitting hints for rasterization of outlines. Proceedings of the International Conference on Electronic Publishing, Document Management pages 221-234, September 1990.
- 3 Apple Computer, Inc. The TrueType Font Format Specification, 1990. Version 1
- 4 Claude B6trisey. G~n~ration Automatique de Contraintes pour CaractOres Typ ModOle Topologique. PhD thesis, Ecole Polytechnique F6d6rale de Lausanne, 199
- 5 Roger D. Hersch, Character generation under grid constraints, Proceedings of the Computer graphics and interactive techniques, p.243-252, August 1987
- 6 Roger D. Hersch , Claude Betrisey, Model-based matching and hinting of fonts, conference on Computer graphics and interactive techniques, p.71-80, July 1991
- 7 Beat Stature. Visual TrueType: A graphical method for authoring font intelligence and H. Brown, editors, Electronic Publishing, Artistic Imaging, and Digital Typography 1998.

↑ CITINGS 2

Ariel Shamir, Constraint-based approach for automatic hinting of digital typefaces, (TOG), v.22 n.2, p.131-151, April 2003

William T. Freeman , Joshua B. Tenenbaum , Egon C. Pasztor, Learning style transfer ACM Transactions on Graphics (TOG), v.22 n.1, p.33-46, January 2003

↑ INDEX TERMS

Primary Classification:

I. Computing Methodologies

↪ I.7 DOCUMENT AND TEXT PROCESSING

Additional Classification:

I. Computing Methodologies

↪ I.4 IMAGE PROCESSING AND COMPUTER VISION

↪ I.4.7 Feature Measurement

↪ Subjects: Size and shape

↪ I.4.8 Scene Analysis

↪ Subjects: Shape

↪ I.5 PATTERN RECOGNITION

↪ I.5.2 Design Methodology

↪ Subjects: Feature evaluation and selection

↪ I.7 DOCUMENT AND TEXT PROCESSING

General Terms:

Design, Documentation, Measurement, Performance, Theory

Keywords:

automatic hinting, digital typography, gridfitting, shape matching

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